

LineLazer IV 250_{SPS} **Self-Propelled Line Striper**

3A2090A

For the application of line striping materials.

For professional use only.

For outdoor use only.

Not for use in hazardous locations or explosive atmospheres.

Maximum Operating Speed: 10 mph (16 kph)

Maximum Operating Pressure: 3300 psi (22.8 MPa, 228 bar)



IMPORTANT SAFETY INSTRUCTIONS

Read all warnings and instructions in this manual and the engine manual. Save these instructions.

Model	Guns	Description
24F307	2 Guns	LLIV 250SPS (North America, Latin America, Asia Pacific)
24K960	1 Gun	LLIV 250SPS (Latin America, Asia Pacific)
24K961	1 Gun	LLIV 250SPS (Europe)
24K962	2 Guns	LLIV 250SPS (Europe)
24M608	1 Gun	FieldLazer G400 (North America)

Related Manuals:			
3A2593	Repair		
3A2598	Parts		
311254	Gun		
309277	Pump		
312307	Auto-Layout Applications Methods		

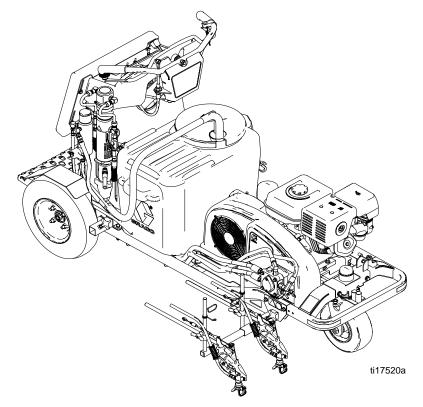




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Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

WARNING



TRAFFIC HAZARD

Being struck by other vehicles may result in serious injury or death.

- Do not operate in traffic.
- Use appropriate traffic control in all traffic areas.
- Follow local highway and transportation regulations for traffic control (for example: Manual on Uniform Traffic Control Devices, U.S. Department of Transportation).



FIRE AND EXPLOSION HAZARD

Flammable fumes, such as solvent and paint fumes, in **work area** can ignite or explode. To help prevent fire and explosion:



- Use equipment only in well ventilated area.
- Do not fill fuel tank while engine is running or hot; shut off engine and let it cool. Fuel is flammable and can ignite or explode if spilled on hot surface.
- Keep work area free of debris, including solvent, rags and gasoline.
- Ground all equipment in the work area. See **Grounding** instructions.



- Use only grounded hoses.
- Hold gun firmly to side of grounded pail when triggering into pail. Do not use pail liners unless they are antistatic or conductive.
- **Stop operation immediately** if static sparking occurs or you feel a shock. Do not use equipment until you identify and correct the problem.
- Keep a working fire extinguisher in the work area.



INJECTION HAZARD

High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. **Get immediate surgical treatment.**



- Do not spray without tip guard and trigger guard installed.
- Engage trigger lock when not spraying.
- Do not point gun at anyone or at any part of the body.



- Do not put your hand over the spray tip.
- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Follow the **Pressure Relief Procedure** when you stop spraying and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses and couplings daily. Replace worn or damaged parts immediately.



CARBON MONOXIDE HAZARD

Exhaust contains poisonous carbon monoxide, which is colorless and odorless. Breathing carbon monoxide can cause death.

• Do not operate in an enclosed area.



PRESSURIZED ALUMINUM PARTS HAZARD

Use of fluids that are incompatible with aluminum in pressurized equipment can cause serious chemical reaction and equipment rupture. Failure to follow this warning can result in death, serious injury, or property damage.

- Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents.
- Many other fluids may contain chemicals that can react with aluminum. Contact your material supplier for compatibility.

AWARNING



ENTANGLEMENT HAZARD

Rotating parts can cause serious injury.

- Keep clear of moving parts.
 - Do not operate equipment with protective guards or covers removed.
 - Do not wear loose clothing, jewelry or long hair while operating equipment.
 - Equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure and disconnect all power sources.



MOVING PARTS HAZARD

Moving parts can pinch, cut or amputate fingers and other body parts.

- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed.
- Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the
 Pressure Relief Procedure and disconnect all power sources.



EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See **Technical Data** in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See Technical Data in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS from distributor or retailer.
- Do not leave the work area while equipment is energized or under pressure.
- Turn off all equipment and follow the Pressure Relief Procedure when equipment is not in use.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you are using it.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- · Keep children and animals away from work area.
- Comply with all applicable safety regulations.
- Do not carry passengers.
- Check work area for reduced overhead clearance (e.g. doorways, tree branches, parking ramp ceilings) and avoid contacting them.

WARNING



BATTERY SAFETY

The battery may leak, explode, cause burns, or cause an explosion if mishandled.

- Only use the battery type specified for use with the equipment. See Technical Data.
- Battery maintenance must only be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from battery.
- Do not dispose of battery in fire. The battery is capable of exploding.
- Follow local ordinances and/or regulations for disposal.
- Do not open or mutilate the battery. Released electrolyte has been known to be harmful to the skin and eyes and to be toxic.
- · Remove watches, rings, or other metal objects.
- Only use tools with insulated handles. Do not lay tools or metal parts on top of battery.



BURN HAZARD

Equipment surfaces and fluid that's heated can become very hot during operation. To avoid severe burns:

· Do not touch hot fluid or equipment.

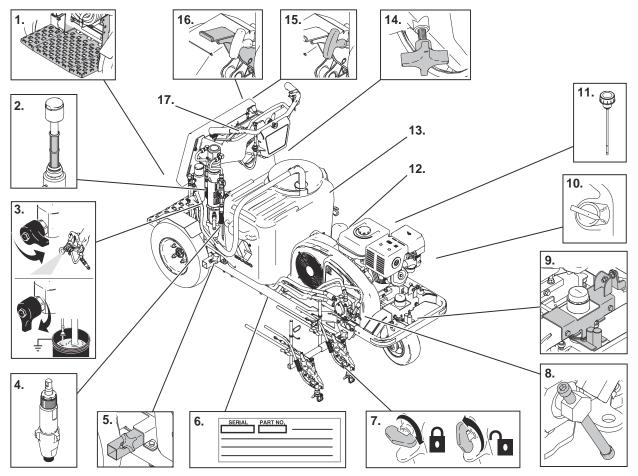


PERSONAL PROTECTIVE EQUIPMENT

Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This protective equipment includes but is not limited to:

- Protective eyewear, and hearing protection.
- · Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.

Component Identification (Sprayer)

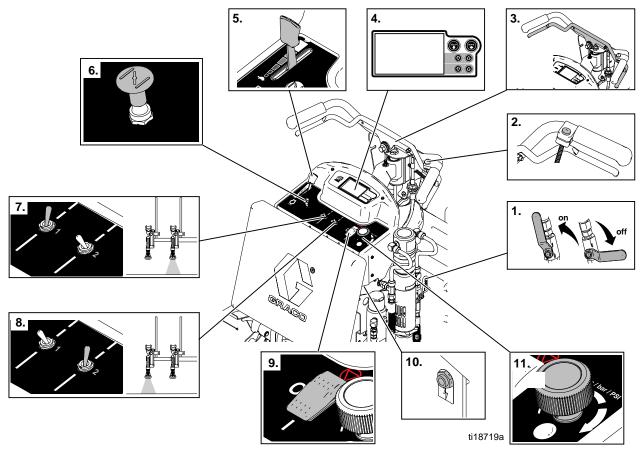


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1	Operator Platform
2	Paint Filter
3	Prime / Drain Valve
4	Displacement Pump
5	Rear Gun Arm Mount
6	Serial Label
7	Gun Trigger Safety
8	Wheel Motor Bypass Valve
9	Straight Line Adjuster

10	Engine ON/OFF Switch
11	Hydraulic Fill Cap / Dipstick
12	Oil Filter
13	Paint Hopper (25 gallon / 75 liter)
14	Handle Bar Height Adjustment Knob
15	Engine Recoil Handle
16	Brake
17	Steering Handle

Component Identification (Controls)



1	Hydraulic Pump Valve
2	Gun Trigger Control
3	Forward / Reverse Lever
4	Display
5	Engine Throttle
6	Engine Choke
7	Gun 1 Selector
8	Gun 2 Selector
9	Engine Kill / Main Power Switch
10	12V Accessory Jack
11	Pressure Control

Grounding Procedure (For Flammable Materials Only)

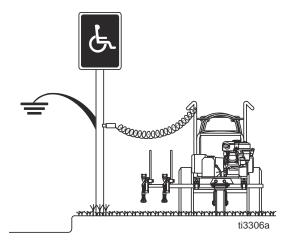






This equipment must be grounded to reduce the risk of static sparking. Static sparking can cause fumes to ignite or explode. Grounding provides an escape wire for the electric current.

- Position striper so that the tires are not on pavement.
- 2. Ground sprayer with grounding clamp. Grounding clamp must attach to grounded object (e.g. metal sign post).



Pressure Relief Procedure





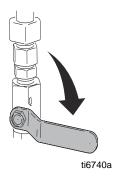




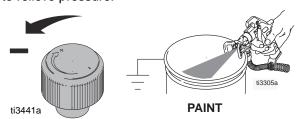


This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow the Pressure Relief Procedure when you stop spraying and before cleaning, checking, or servicing the equipment.

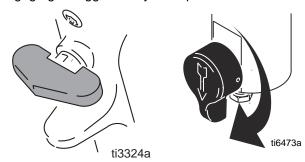
- Perform Grounding Procedure if using flammable materials.
- 2. Set pump valve OFF. Turn engine OFF.



3. Turn pressure control to lowest setting. Trigger gun to relieve pressure.



4. Engage gun trigger safety. Turn prime valve down.



Setup/Startup





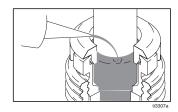






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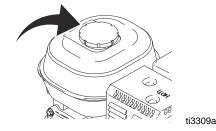
- 1. Perform **Grounding Procedure** (page 8) if using flammable materials.
- 2. Fill throat packing nut with Throat Seal Liquid (TSL) to decrease packing wear.



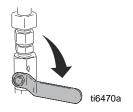
3. Check engine oil level. Add SAE 10W-30 (summer) or 5W-30 (winter). See engine manual.



4. Fill fuel tank.



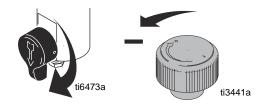
5. Set pump valve OFF.



6. If removed, install strainer.

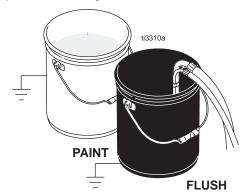


7. Turn prime valve down. Turn pressure control counterclockwise to lowest pressure.

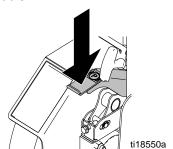


NOTE: Minimum hose size allowable for proper sprayer operation is 3/8 in. x 20 ft (9.5mm x 6mm).

8. Place siphon tube set in grounded metal pail partially filled with flushing fluid. Attach ground wire to true earth ground. Do 1. - 5. of **Startup** to flush out storage oil shipped in sprayer. Use water to flush water-base paint and mineral spirits to flush oil-base paint and storage oil.



9. Apply brake.

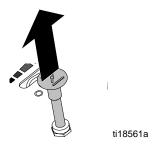


10. Start engine:

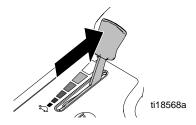
a. Move fuel valve to open.



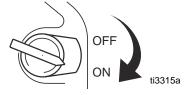
b. Move choke to closed.



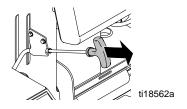
c. Set throttle to fast.



d. Set engine switch ON.



e. Pull starter cord.

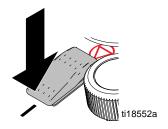


f. After engine starts, move choke to open.

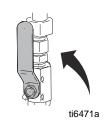


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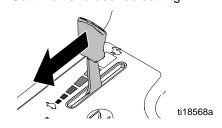
11. Set main power switch ON.



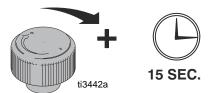
12. Set pump valve **ON** (pump is now active).



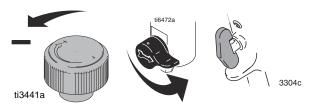
13. Set throttle to desired setting.



14. Increase pressure control enough to start pump. Allow fluid to circulate for 15 seconds.



15. Turn pressure down, turn prime valve horizontal. Disengage gun trigger safety.



 Hold gun against grounded metal flushing pail. Trigger gun and increase fluid pressure slowly until pump runs smoothly.

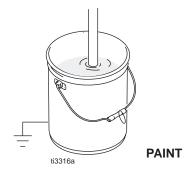


17. Inspect fittings for leaks. If leaks occur, turn sprayer OFF immediately. Perform Pressure Relief Procedure. Tighten leaky fittings. Repeat Startup, steps 1 - 7. If no leaks, continue to trigger gun until system is thoroughly flushed. Proceed to step 9.



To avoid skin injection injury, do not stop leaks with your hand or a rag.

18. Place siphon tube in paint pail.



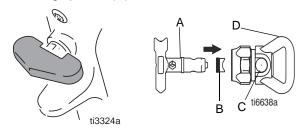
19. Trigger gun again into flushing fluid pail until paint appears. Assemble tip and guard.



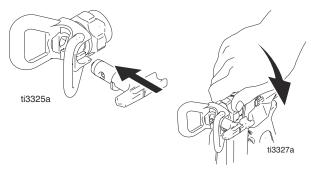
20. Repeat steps 6 - 10 on second gun for 2-gun models.

SwitchTip and Guard Assembly

 Engage trigger safety. Use end of SwitchTip (A) to press OneSeal (B) into tip guard (D), with curve matching tip bore (C).



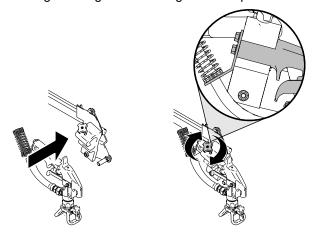
Insert SwitchTip in tip bore and firmly thread assembly onto gun.



Gun Placement

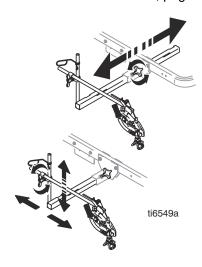
Install Gun

1. Insert gun into gun holder. Tighten clamp.

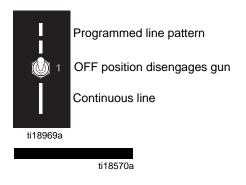


Position Gun

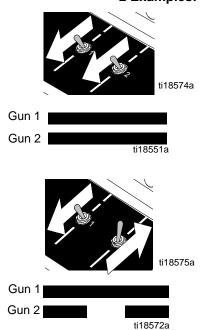
2. Position gun: up/down, forward/reverse, left/right. See **Gun Positions Chart**, page 17 for examples.



3. Use the Gun Selector Switches to determine which guns are active. Each gun selector switch has 3 positions: continuous line, OFF, and programmed line pattern.



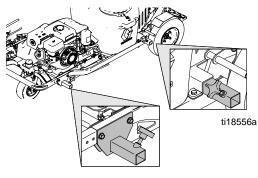
2 Examples:

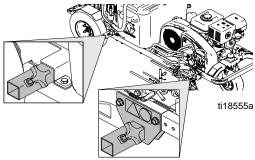


Use the Gun Trigger Control to actuate guns.

Gun Arm Mounts

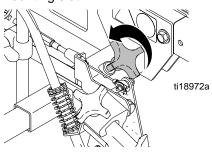
This unit is equipped with front and rear gun arm mounts.



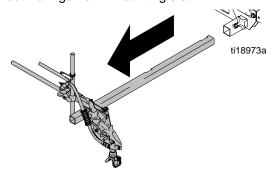


Change Gun Position (Front and Back)

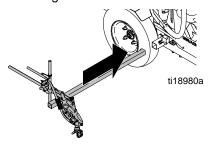
 Loosen gun arm knob and remove from gun arm mounting slot.



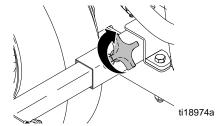
2. Slide gun arm assembly (including gun and hoses) out from gun arm mounting slot.



Slide gun arm assembly into desired gun arm mounting slot.



4. Tighten gun arm knob into gun arm mounting slot.



NOTICE

Make sure all hoses, cables, and wires are properly routed through brackets and do NOT rub on tire. Contact with tire will result in damaged hoses, cables, and wires.

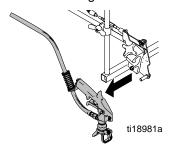
Change Gun Position (Left and Right)

Removal

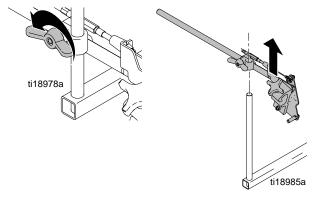
1. Loosen gun arm knob on gun arm mounting slot.



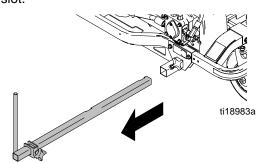
2. Remove guns from gun mounts (be sure to keep track of which gun is 1 and which gun is 2).



Loosen gun mounting wing nut and remove gun mount.

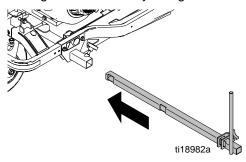


4. Slide gun arm assembly out from gun arm mounting slot.

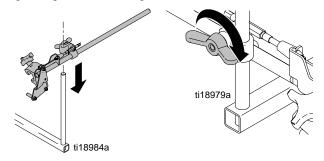


Installation

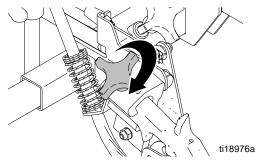
1. Slide gun arm assembly into gun arm mounting slot.



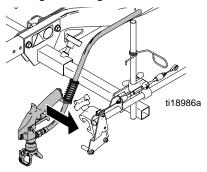
2. Install gun mount onto gun arm assembly and tighten gun mount wing nut.



3. Tighten gun arm knob into gun arm mounting slot.



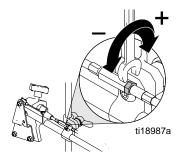
4. Install guns into gun mounts.



NOTE: Make sure all hoses, cables, and wires are properly routed through brackets.

Gun Cable Adjustment

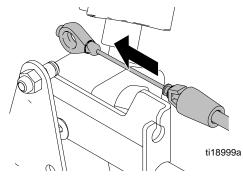
Adjusting the gun cable will increase or decrease the gap between the trigger plate and the gun trigger. To adjust trigger gap, perform the steps below.



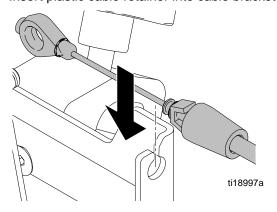
- 1. Use wrench to loosen locking nut on cable adjuster.
- 2. Loosen or tighten adjuster until desired result is achieved. **NOTE:** More thread exposed means less gap between gun trigger and trigger plate.
- 3. Use wrench to tighten locking nut on tie adjuster.

Adding Gun Cable

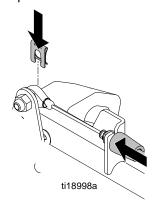
1. Install exposed cable through cable bracket slot.



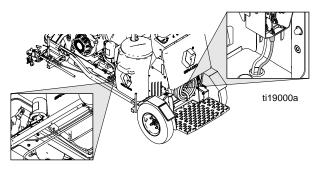
2. Insert plastic cable retainer into cable bracket hole.



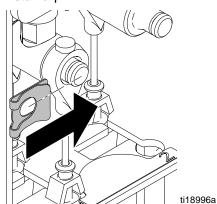
3. Install cable end onto trigger plate pin and install clip.



4. Route cable around unit and up through cable holes behind hose mount.



5. Route cable end loop through rectangular hole in bracket and insert plastic cable retainer into the actuator bracket. Install cable end onto actuator rod and install clip.

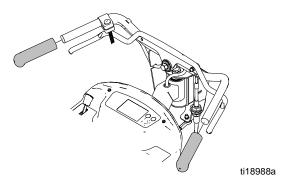


NOTE: Each gun actuator is capable of operating two cables. For second gun installation, attach cable to the unused actuator rod.

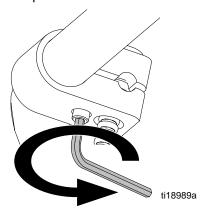
Change Trigger Position

Removal

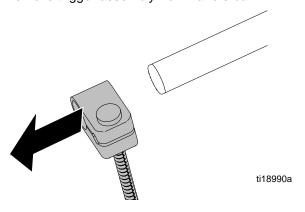
 Remove both hand grips from handle bar (spraying compressed air into end of handle grip works well for this).



Use an allen wrench to loosen bolt on trigger mounting clamp.

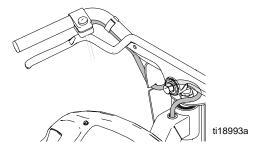


3. Remove trigger assembly from handle bar.

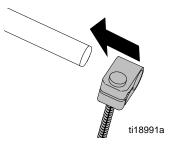


Installation

 Route trigger wire to other side of handle bar. Make sure wire is routed behind steering column, through wire slot on steering plate, and into wire clamp on handle bar.



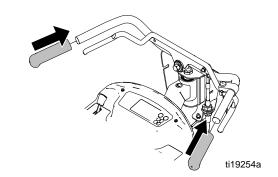
2. Install trigger assembly onto desired handle bar.



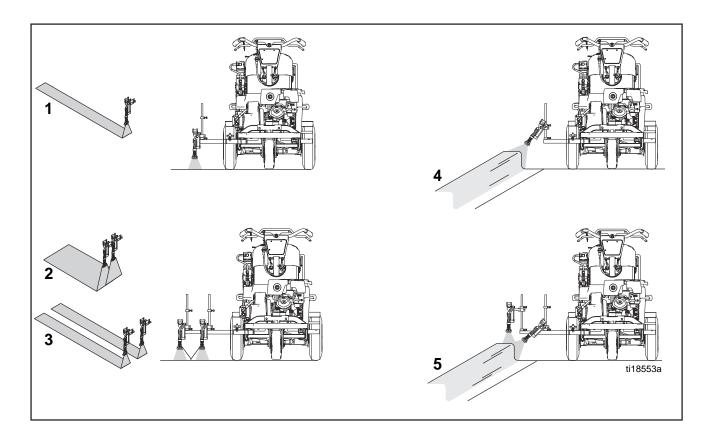
3. Use allen wrench to tighten bolt on trigger mounting clamp.



4. Replace hand grips.



Gun Positions Chart



1	One line
2	One line up to 24 in. (61 cm) wide.
3	Two lines
4	One gun curb
5	Two gun curb

Driving Instructions

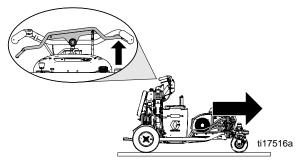


Perform Startup, page 9.

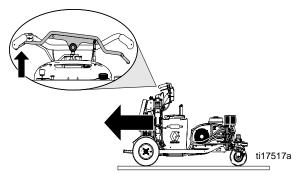
Use the handle bars of the LineStriper to control all motion during operation. In addition to steering the LineStriper, the handle bars also control forward and reverse movement by pulling the forward/reverse control lever.

NOTE: Make sure wheel motor bypass valve is engaged (see page 19).

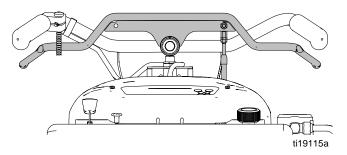
To move forward: Disengage brake and slowly pull control lever on right side of handlebar.



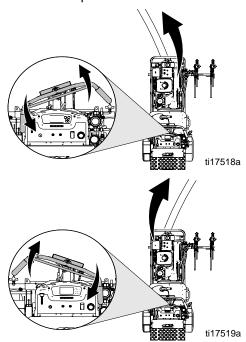
To move in reverse: Slowly pull control lever on left side of handlebar.



To stop: Release control lever and allow it to return to center.



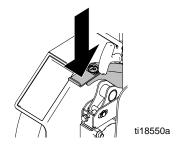
To turn right and left: Turn the handle bar right or left to steer the LineStriper.



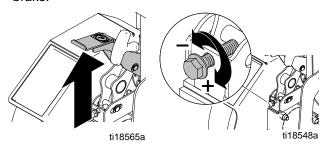
Parking / Emergency Brake

This unit is equipped with a parking brake. Always engage parking brake when not in operation. Brake may also be used to stop machine in an emergency situation.

 Step down on the brake lever to engage parking brake.



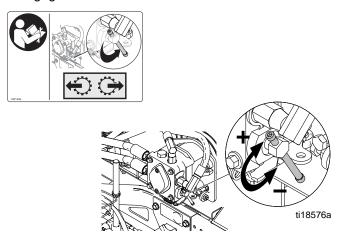
Lift brake lever up with foot to disengage parking brake.



NOTE: Adjust screw for more or less braking force.

Drive Engagement

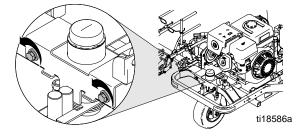
The wheel motor bypass valve allows the operator to disengage the wheel tension and push the unit around. Rotate one complete turn counter-clockwise to disengage.



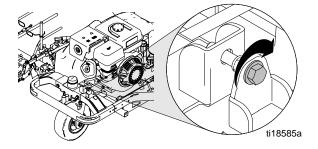
Straight Line Adjustment

The front wheel is set to center the unit and allow the operator to form straight lines. Over time, the wheel may become misaligned and will need to be readjusted. To re-center the front wheel, perform the following steps:

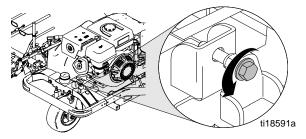
1. Loosen two bolts on the wheel alignment plate.



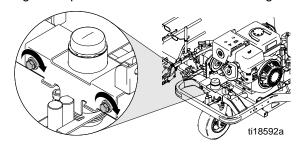
2. If striper arcs to the right, turn adjuster screw clockwise.



If striper arcs to the left, turn adjuster screw counter-clockwise.

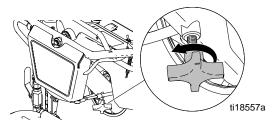


4. Test-drive the striper. Repeat steps 2 and 3 until striper drives straight. Tighten two bolts on wheel alignment plate to lock the new wheel setting.

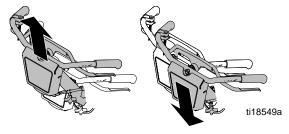


Handle Bar Height Adjustment

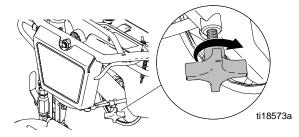
1. Loosen handlebar height adjuster lock.



2. Raise or lower handlebars to desired height.

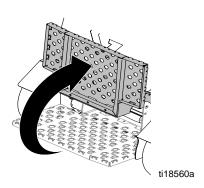


Tighten handlebar height adjuster lock.

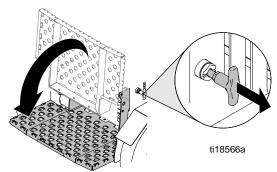


Platform Storage Position

1. Raise stand and pin self-locks.

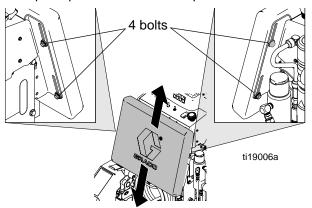


2. To lower stand, pull pin and lower stand.



Front Pad Adjustment

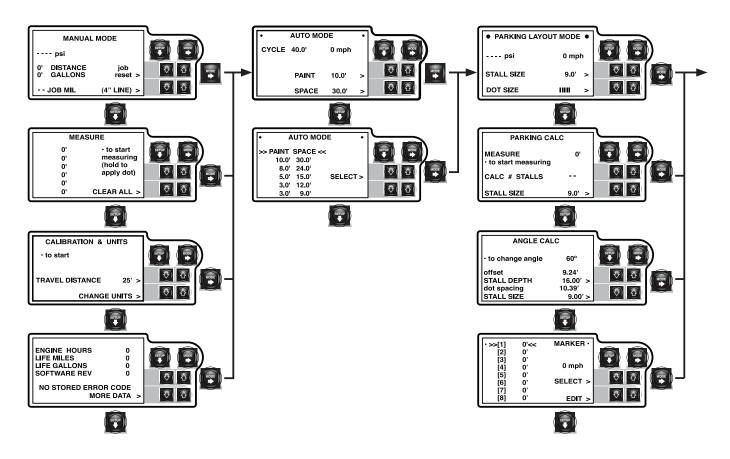
- Loosen four bolts.
- 2. Slide pad up or down to desired position.



3. Tighten four bolts.

Smart Control Overview

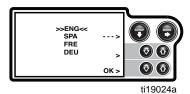
Quick Guide



Smart Control Operation

Initial Setup

1. Select appropriate language.



ENG = English

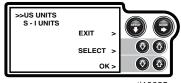
SPA = Spanish

FRE = French

DEU = German

NOTE: Languages can also be changed later.

2. Select appropriate units of measure.



ti19025a

US Units

Pressure = psi

Volume = gallons

Distance = feet

Line Thickness = mil

Speed = mph

SI Units

Pressure = bar (MPa available)

Volume = liters

Distance = meters

Line thickness = micron $(g/m^2 \text{ available})$

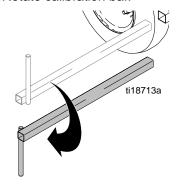
Paint Specific gravity = 1.6

Speed = Kph

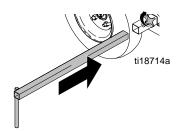
NOTE: All units can be changed individually at any time.

Calibration

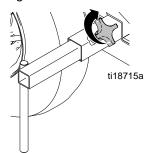
- 1. Check tire pressure and fill if necessary.
- 2. Rotate calibration bar.



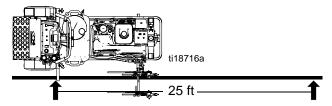
3. Insert calibration bar face down.



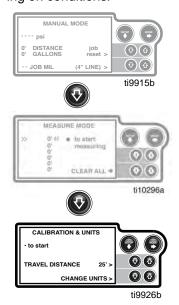
4. Tighten knob.



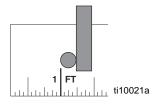
5. Extend steel tape to distance greater than 26 ft.



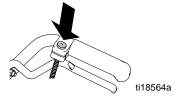
 Press SETUP twice to move to CALIBRATION & UNITS display. Set TRAVEL DISTANCE to 25 ft. Longer distances ensure better accuracy, depending on conditions.



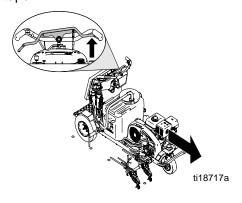
7. Align calibration bar rear edge with 1 foot on steel tape.



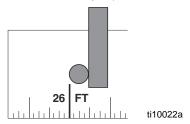
8. Push gun trigger control to start calibration.



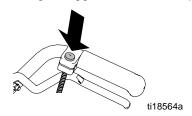
9. Move striper forward. Keep calibration bar over steel tape.



10. Stop when calibration bar rear edge aligns with 26-ft. on steel tape (25-ft. distance).



11. Push gun trigger control to complete calibration.



- 12. **NEW CALIBRATION STORED** displays. Press **EXIT.** Calibration is now complete.
- 13. Go to **MEASURE** mode and verify accuracy by measuring the tape (see **MEASURE MODE**).

Calibration Error Displays

This message is displayed if striper has rolled beyond calibration length when gun trigger control is pressed to end calibration.

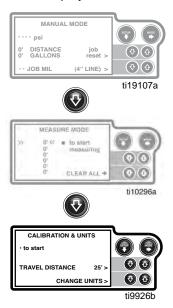


This message is displayed if striper has rolled less than calibration length when gun trigger control is pressed to end calibration.

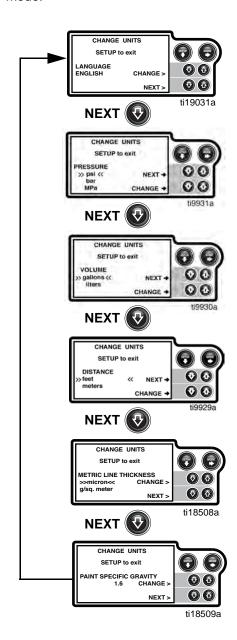


Change Units or Language

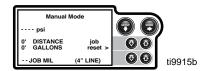
 Press SETUP twice to move to CALIBRATION & UNITS display. Select CHANGE UNITS.



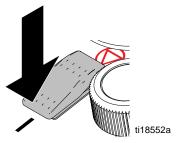
 While in CHANGE UNITS display, press CHANGE to change units or NEXT to move to the next unit of measure. Press SETUP to exit CHANGE UNITS mode.



Operation in Manual Mode



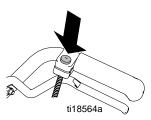
 Make sure engine is running and main power switch is on.



2. Use Gun Selector Switches to select guns and line type.



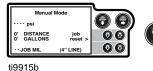
3. Press and hold Gun Trigger Control button to spray a line. Release button to stop spraying.

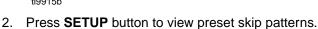


Operation in Automatic Mode

Preset Skip Patterns

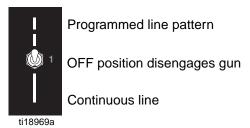
 In the AUTOMATIC MODE, the striper is equipped with Preset Skip Patterns. To select a preset skip pattern, press MODE button to move to AUTO-MATIC MODE.





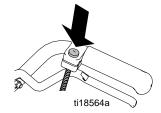


- Use SELECT arrows to mark desired pattern. Press SETUP key to save and return to AUTOMATIC MODE display.
- 4. Use Gun Selector Switches to select guns and line type.



NOTE: Striper must be moving for guns to activate.

With the striper moving faster than 0.3 mph (0.5 kph) press Gun Trigger Control Button to stripe.
 Press button again to stop striping or reduce speed to below 0.3 mph (0.5 kph).

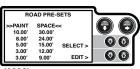


Advanced: Preset Skip Patterns

1. A Preset Skip Pattern can be modified for a custom pattern. From AUTO MODE press SETUP key to get preset patterns.



Use **SELECT** arrow keys to choose which preset pattern you wish to modify. Use **EDIT** arrow keys to get PAINT and HOSE lengths.

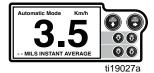


3. Use **EDIT** arrows to change the **PAINT** line length. Use **SELECT** arrows to scroll down to **SPACE** length. Use EDIT arrows to change the SPACE length. Press SETUP key to save and return to **AUTOMATIC MODE** display.



NOTE: When travel speeds exceed 0.3 mph (0.5 Kph) in MANUAL or AUTOMATIC modes, the display will change to large speed display format.





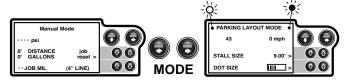
Parking Layout Mode

NOTE: Please use the 286111 tip provided with striper for parking lot layout work. For best performance set pressure to 1000 psi (68.9 bar, 6.89 MPa) and reverse tip.

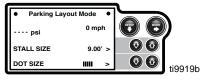
Parking Mode

Basic Stalls

From **MANUAL MODE** press **MODE** button twice for **PARKING LAYOUT MODE**. This display allows you to change stall size and dot size. It also shows speed. The two dots before and after **PARKING MODE** flash alternately when Gun Trigger Control is pressed to signal mode is active.



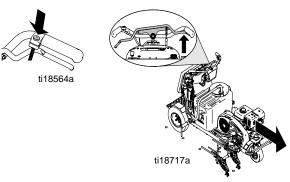
 Press down arrow opposite **DOT SIZE** to decrease dot size. Press up arrow to increase dot size.



2. Press down arrow opposite **STALL SIZE** to decrease stall width. Press up arrow to increase stall width.

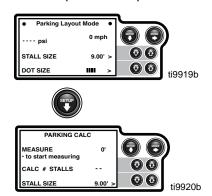


 Press Gun Trigger Control button and move striper forward. Striper marks dots every 9.0 ft (or stall size you have set) until Gun Trigger Control button is pressed again.



Advanced: Parking Calc

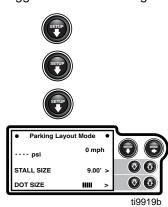
 Press SETUP and move to PARKING CALC. The striper divides the stall size into the measurement taken here to determine the number of stalls that can be striped in this space.



The last length measured in the MEASURE MODE
is transmitted to this display, or press Gun Trigger
Control to start measuring (press Gun Trigger Control again to stop measuring). You can change
STALL SIZE (wider or narrower) or CALC #
STALLS (total number of stalls).

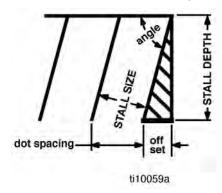


 Press SETUP three times to return to PARKING LAYOUT MODE. Press Gun Trigger Control button, move forward and start to mark dots. Press Gun Trigger Control button again to end dots.

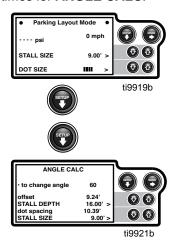


Angle Stalls

1. Angle stalls require the operator to input stall angle and depth. The Auto-Layout System calculates the offset distance based on this input.



From PARKING LAYOUT MODE press SETUP two times for ANGLE CALC.

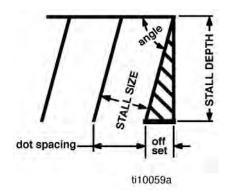


3. **ANGLE:** Press and hold Gun Trigger Control button to change stall angle. Angle increases up to 90° and wraps around and starts over at 45°.

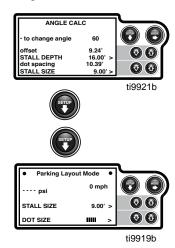
STALL DEPTH: Press down arrow to decrease or up arrow to increase stall depth.

STALL SIZE: Press down arrow to decrease or up arrow to increase stall size.

4. Measure and mark the offset distance for the first stall.

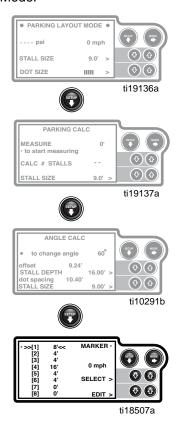


5. Press **SETUP** two times to save angled stall dot spacing to **PARKING LAYOUT MODE**.

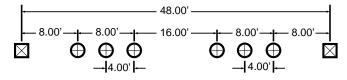


Marker Mode

- Press the MODE key to select Parking Layout Mode.
- Press SETUP three times to select Marker Layout Mode



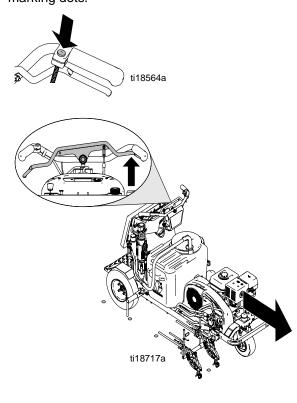
3. Use **SELECT** and **EDIT** keys to set up reflective marker pattern.



Automatic marker layout example shows typical lane line layout for reflective markers. Set space sizes up to 8 consecutive measurements. By leaving zeros in any space, AutoLayout will skip to the next measurement in a continuous loop.

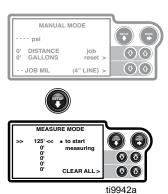
OTHER USES:

- Multiple spaced handicap stall layout
- Double line stalls
- 4. Press gun trigger control and move striper forward to mark dots. Press gun trigger control again to stop marking dots.

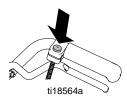


Measure Mode

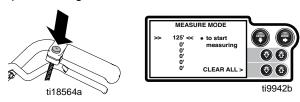
1. Press **SETUP** once from Manual Mode display.



2. Press Gun Trigger Control and move striper forward or backward (back ward is a negative distance).



3. Press Gun Trigger Control to end measured length. Up to six lengths are viewable.

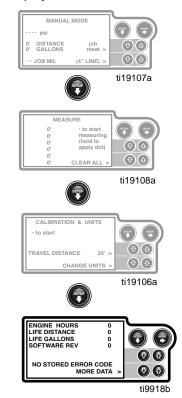


NOTE: The last measured length is also saved as the length in **PARKING CALC** display.

NOTE: Press and hold Gun Trigger Control at any time to apply a dot.

Machine Information

1. Press **SETUP** button three times from Manual Mode display.



2. Press arrow keys to toggle between more data screens.



Cleanup











This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow the Pressure Relief Procedure when you stop spraying and before cleaning, checking, or servicing the equipment.

- 1. Perform Pressure Relief Procedure, page 8.
- 2. Remove guard and SwitchTip.



3. Unscrew cap, remove filter. Assemble without filter.



4. Clean filter, guard and SwitchTip in flushing fluid.



- 5. Place siphon tube set in grounded metal pail partially filled with flushing fluid. Attach ground wire to true earth ground. Perform Startup steps 1 6 (see page 9) to flush out paint in sprayer. Use water to flush water-base paint and mineral spirits solvent (also called white spirit) to flush oil-base paint.
- 6. Hold gun against paint bucket and pull trigger until water or solvent appears.



- 7. Move gun to solvent or water bucket. Hold gun against bucket and pull trigger until the system is thoroughly flushed.
- 8. Fill pump with Pump Armor and reassemble filter, guard and SwitchTip.
- 9. Each time you spray and store, fill throat packing nut with TSL to decrease packing wear.

Hydraulic Oil/Filter Change

Removal









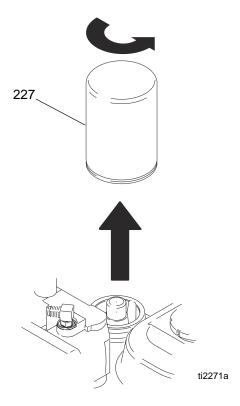


This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow the Pressure Relief Procedure when you stop spraying and before cleaning, checking, or servicing the equipment.

- 1. Relieve pressure, page 8.
- 2. Place drip pan or rags under sprayer to catch hydraulic oil that drains out.
- 3. Remove drain plug. Allow hydraulic oil to drain.
- Unscrew filter (227) slowly oil runs into groove and drains out rear.

Installation

- Apply a light film of oil on filter gasket. Install drain plug and oil filter (227). Tighten oil filter 3/4 turn after gasket contacts base.
- 2. Fill with five quarts of Graco hydraulic oil 169236 (5 gallon/20 liter) or 207428 (1 gallon/3.8 liter).
- 3. Check oil level.



Technical Specifications

	U.S.	Metric		
Dimensions				
Height (with handle bar down)	Unpackaged - 47.25 in. Packaged - 54.25 in.	Unpackaged - 120.0 cm Packaged - 137.8 cm		
Width	Unpackaged - 33.0 in. Packaged - 40.0 in.	Unpackaged - 83.8 cm Packaged - 101.6 cm		
Length (with platform down)	Unpackaged - 73.5 in. Packaged - 78.0 in.	Unpackaged - 186.7 cm Packaged - 198.1 cm		
Weight	Unpackaged - 627.0 lb Packaged - 730.0 lb	Unpackaged - 284.4 kg Packaged - 331.1 kg		
Noise (dBa)				
Sound Power per ISO 3744:	9	7.1		
Sound Pressure measured at 3.1 feet (1m):	81.2			
Vibration (sq m/sec) (8 hours daily	exposure)			
Hand Arm (per ISO 5349)	1	1.2		
Whole Body (per ISO 2631)	0.0			
Power Rating (Horse Power)				
Power Rating (Horse Power) per SAE J1349				
Maximum Delivery	2.5 gpm	9.5 lpm		
Maximum Tip Size 1 gun 2 gun	.055 in. tip .039 in. tip			
Inlet paint strainer	16 mesh	1190 micron		
Outlet paint strainer	60 mesh	250 micron		
Pump inlet size	1 in. N	SPM (m)		
Pump outlet size	3/8 N	NPT (f)		
Hydraulic reservoir capacity	1.25 gallons	4.73 liters		
Maximum hydraulic pressure	1825 psi	124 bar		
Maximum working pressure	3300 psi	228 bar, 22.8 MPa		
Maximum forward speed	10 mph	16 kph		
Maximum reverse speed	6 mph 9.7 kph			
Electrical Capacity	14 A @ 3600 rpm			

Wetted Parts:

PTFE, Nylon, polyurethane, V-Max, UHMWPE, fluoroelastomer, acetal, leather, tungsten carbide, stainless steel, chrome plating, nickel-plated carbon steel, ceramic

Notes			

Notes		

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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